Assembly Instructions for the Sentinel with Solar Brackets for a Magnetrol 706 Sensor

Parts List:

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnetrol mounting bracket</td>
<td>1</td>
</tr>
<tr>
<td>½ NPT Plug with 2 washers</td>
<td>1</td>
</tr>
<tr>
<td>Riser clamp</td>
<td>1</td>
</tr>
<tr>
<td>3/8-16 x ¾” Unthreaded spacers</td>
<td>2</td>
</tr>
<tr>
<td>Cable clamp</td>
<td>1</td>
</tr>
<tr>
<td>¼-20 flange nuts</td>
<td>4</td>
</tr>
<tr>
<td>½ NPT Elbow and nipple</td>
<td>1</td>
</tr>
</tbody>
</table>

Assembly

1. Install Sentinel
   Note: Orient sensor with cover locking screws facing North
   a. Attach pipe nipple into elbow
      Note: you may want to run wires though fittings before assembly
   b. Use thread sealant to attach elbow to sensor with pipe nipple vertical
   c. Attach Sentinel and complete sensor wiring
      i. Connect HART+ terminal on Sentinel to + terminal on the 706
      ii. Connect HART- terminal on Sentinel to – terminal on the 706
2. Loosely attach bracket
   a. Remove nuts from clamp
   b. Place clamp around sensor below tag
   c. Slide round spacers onto bolts
   d. Insert carriage bolts through flat bracket
   e. Thread on nuts, DO NOT TIGHTEN
   f. Place one washer on either side of large hole
   g. Apply thread sealant to plug
   h. Screw in plug, but leave loose enough for bracket to move
3. Tighten bracket
   a. Ensure clamp is not crooked, and lift bracket so plug is resting on the lower half of the hole
      NOTE: the plug should not hold a vertical load after assembly
   b. Alternating between nuts to keep clamp straight, tighten nuts to 19 Ft-Lbs
   c. Tighten plug
4. Attach Solar Panel
   a. Attach Solar Panel assembly with lock nuts
   b. Use cable clamp to guide cable
5. Plug in Solar Panel
   a. Run power cable through cable gland on Sentinel
   b. Plug solar panel assembly into Sentinel, secure power cable
   c. Coil excess cable inside sentinel and tighten cable gland
   d. Install Sentinel cover